JWARN Component Interface Device (JCID)

NBC OAG Decision Brief

JCID Capability

- The JCID will provide the capability to transmit sensor data from 5000M with up to two relays and communicate directly with JWARN to allow operators to monitor detectors remotely from their IOW.

JCID Information

- JCID
  - 4 sensors connect to 1 JCID.
  - 1 JCID configured as the master JCID to interface with JMAS (JWARN Mission Application Software) on IOW.
  - JCID configuration is done off-network using JMAS from IOW.

JCID Information

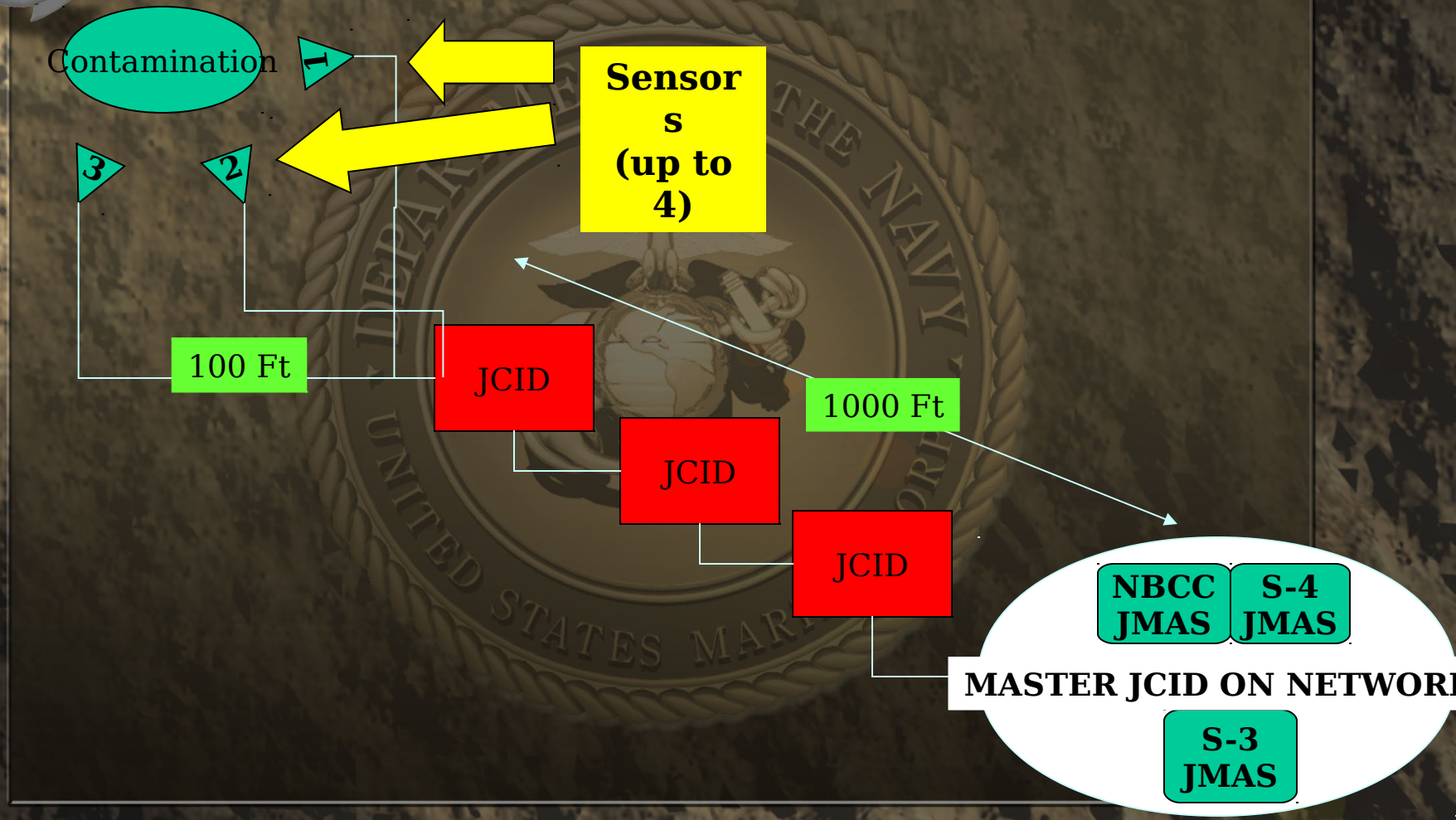
- JCID
  - Weigh one and a half lbs or less.
  - Size 30 {20} cubic inches or less in volume.

JCID
“Notional”View

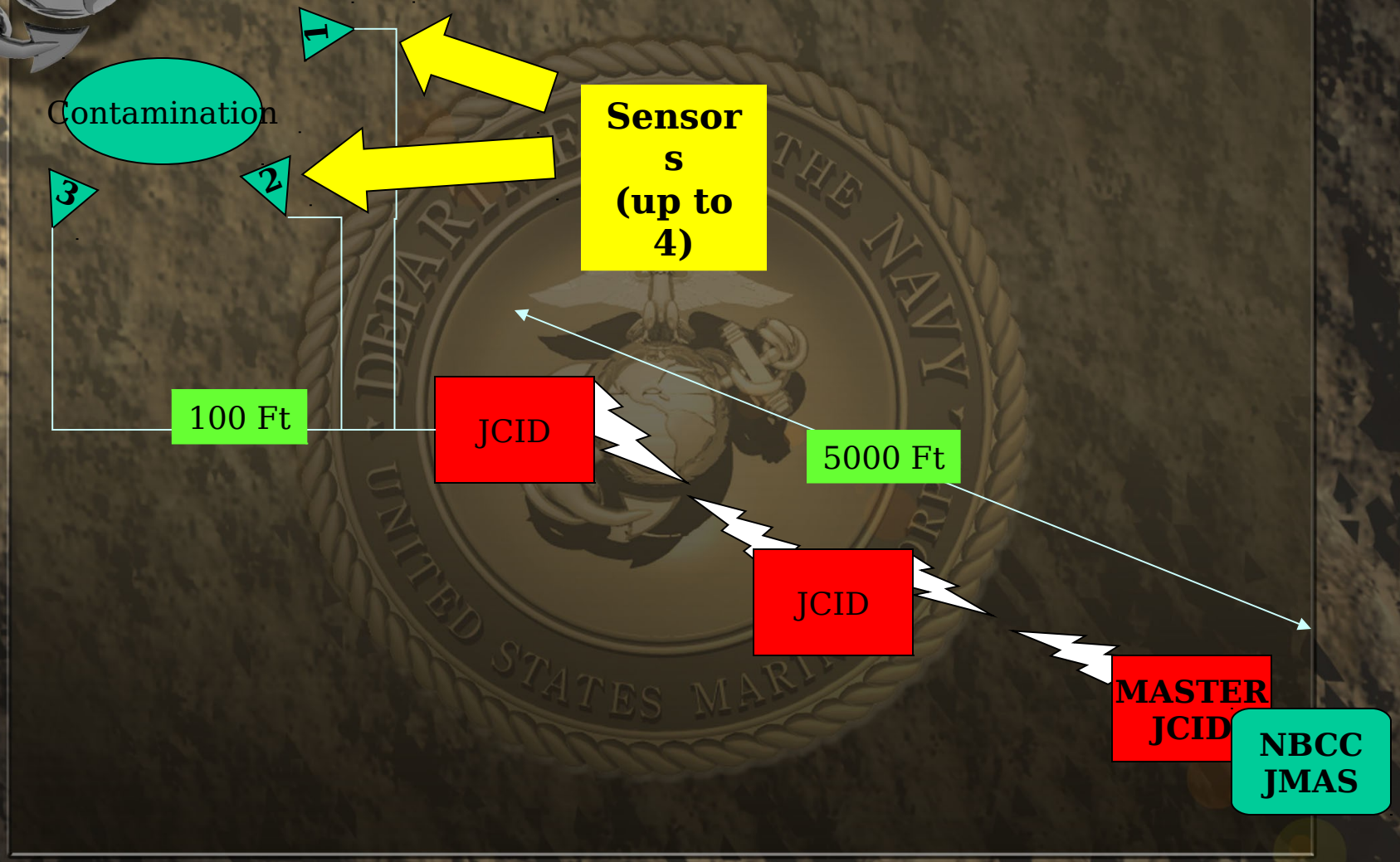
Current Capabilities Shortfall

- **JWARN Program Office (PO)**
  - **No Radio Freq (RF) capability w/o cost.**
    - **Use wire from sensor to JMAS.**
    - **Degrades speed & mobility.**
- **Network Issue**
  - **PO is pushing for - Ethernet connection directly to network.**
    - **MC wants additional RS232 port on JCID or ability to configure existing RS232 port for IOW vice to directly to network.**

PO JCID Employment Vision



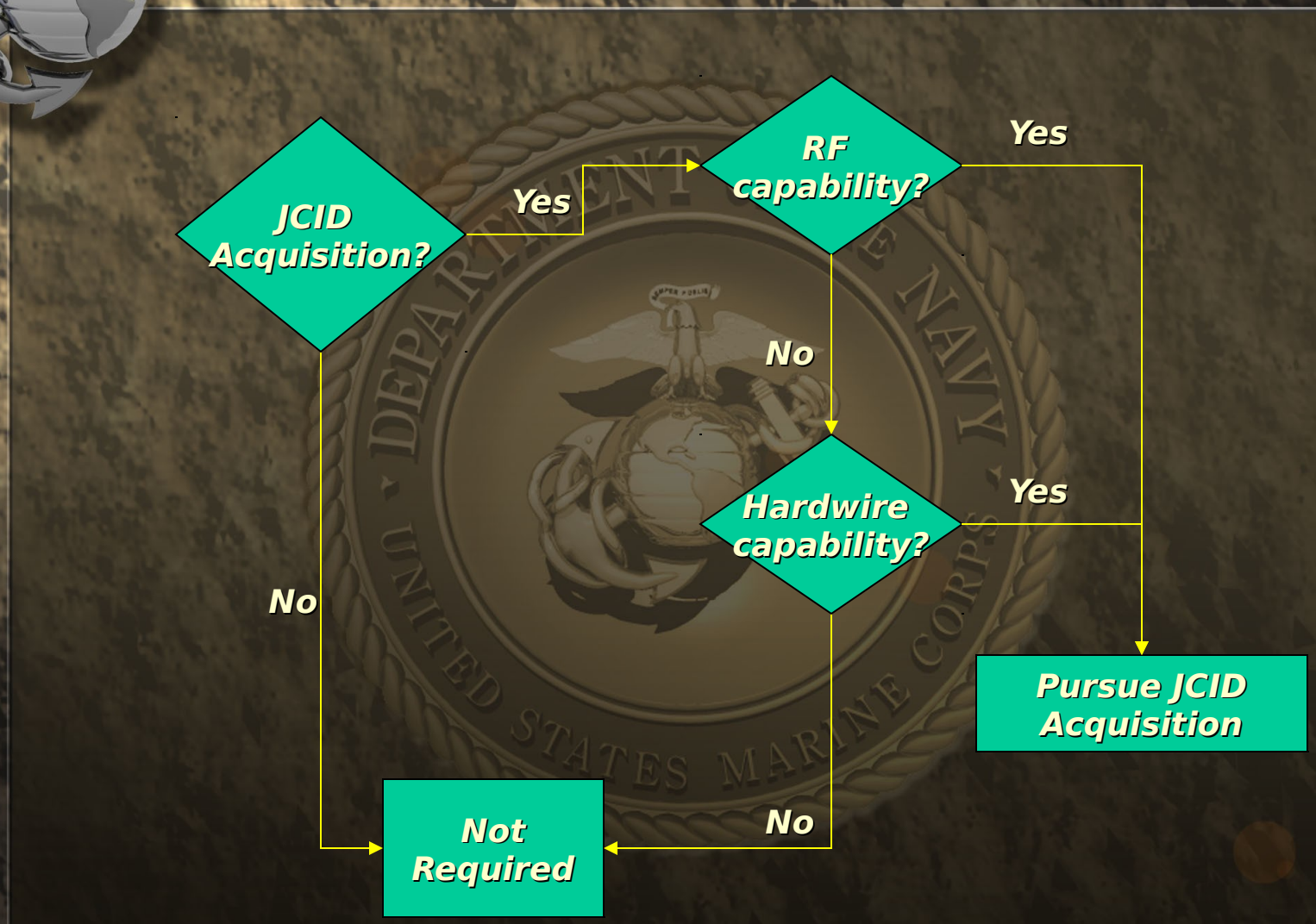
USMC JCID Employment Vision

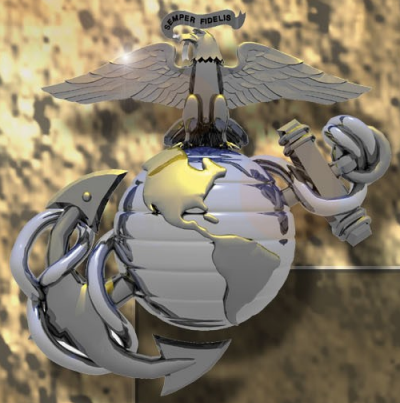


MCCDC Recommendation

- Continue to pursue JCID acquisition if:
  - JCID has RF at no cost to USMC.
  - RS 232 port is added or existing port can be configured for IOW.
- Rationale:
  - Reporting is expedited.
  - Interface with legacy and future sensors.
  - Transmit detector alert information in two seconds or less.
  - Receive sensor input at JSMAS IOW/NBCC.

JCID Use Decision Tree





Questions?

Back Up Slides

JCID Requirements

- No JCID ORD, requirement from JWARN ORD.
- JWARN shall incorporate … connectivity with remote CBRN detectors/sensors and shall be integrated with …. C4ISR systems.
- Remote Object and Network, Control and Configuration .

JCID Requirements (Con't)

- **Efficacy**
  - **Provide the NBC operator capability to manage sensor network from w/i NBCC.**

JCID Requirements (Con't)

- **Cost**
  - **Under $2500 w/o RF**
- **Reliability**
  - **Mean Time Between Operational Mission Failure (MTBOMF) of 1366 hours.**

Fielding Schedule

- JWARN Block II/III
- IOC
  - 1st Qtr FY08.
- FOC
  - 1ST Qtr FY10.

Program Affordability

- Total Life Cycle Cost < $193
- Life Cycle 10yrs
- RDT&E < $46
- O&S < $56
- Procurement < $91